

IN THE CLAIMS

1. (Currently Amended) A connection structure for transmission of high frequency signals, comprising

- a connector body, which constitutes the outer appearance as well as housing of the connector;
- an inner conductor installed in said connector, including a first and a second terminals which are placed to face each other, said connector body comprising a terminal surface, said second terminal being formed deeper than said terminal surface;
- a dielectric which insulates said connector body from said inner conductor and determines impedance of said connector;
- an extendible pin, which is connected electrically to said second terminal of said inner conductor; and
- an impedance compensation means having a hole for said extendible pin, wherein said impedance compensation means includes a protrusion part formed in the center thereof to protrude toward a location where said extendible pin is connected, the impedance compensation means being combined with said connector body in a manner that the surface of said impedance compensation means with said protrusion part fits to the terminal surface of said connector body, and wherein a diameter of said inner conductor remains practically identical between said first and said second terminals, while diameter of said extendible pin is smaller than that of said inner conductor, wherein said protrusion formed at said impedance compensation means satisfies the conditions, $b \leq a/5$ and $c \leq 2b$, when diameter of said impedance compensation means is a , thickness thereof is b , and size of said protrusion is c .

2. (Original) The connection structure as set forth in Claim 1, wherein said impedance compensation means compensates electric discontinuities between said inner conductor and said extendible pin by mechanical arraying with a microwave device to be combined with said connection structure.

3 -16. (Cancelled)

17. (Previously presented) A coaxial connector used for a connection structure in accordance with Claim 1.

18. (Original) The coaxial connector as set forth in Claim 17, wherein said coaxial connector is any one of SMA connector, N series connector, TNC connector, BNC connectors, F series and G series connector, DIN connector, OSMF connector, SMB connector, MCX connector, SSMT connector, OSMT connector, MMXC connector, 0.141, 0.250, 0.08563, 0.14, RG316, RG188, ½", and 7/8"right angled connector, semi rigid, or semi flexible coaxial cables.

19. (Canceled)

20. (Previously presented) A connection structure for transmission of high frequency signals, comprising

a connector body, which constitutes the outer appearance as well as housing of the connector;

an inner conductor installed in said connector, including a first and a second terminals which are placed to face each other;

a dielectric which insulates said connector body from said inner conductor and determines impedance of said connector;

an extendible pin, which is connected electrically to said second terminal of said inner conductor; and

an impedance compensation means having a hole for said extendible pin, wherein

diameter of said inner conductor remains practically identical between said first and said second terminals, while diameter of said extendible pin is smaller than that of said inner conductor, wherein said impedance compensation means includes a protrusion part formed in the center thereof to protrude toward a location where said extendible pin is connected, wherein said protrusion formed at said impedance compensation means satisfies the conditions, $b \leq a/5$ and $c \leq 2b$, when diameter of said impedance compensation means is a, thickness thereof is b, and size of said protrusion is c.

21. (New) The connection structure as set forth in Claim 20, wherein said impedance compensation means compensates electric discontinuities between said inner conductor and said extendible pin by mechanical arraying with a microwave device to be combined with said connection structure.

22. (New) A coaxial connector used for a connection structure in accordance with Claim 20.

23. (New) The coaxial connector as set forth in Claim 22, wherein said coaxial connector is any one of SMA connector, N series connector, TNC connector, BNC connectors, F series and G series connector, DIN connector, OSMF connector, SMB connector, MCX connector, SSMT connector, OSMF connector, MMXC connector, 0.141, 0.250, 0.08563, 0.14, RG316, RG188, ½", and 7/8"right angled connector, semi rigid, or semi flexible coaxial cables.